

**COMPOSITION, FORMULATIONS & METHOD FOR PREVENTION &  
TREATMENT OF DISEASES AND CONDITIONS ASSOCIATED WITH  
BRONCHOCONSTRICTION, ALLERGY(IES) & INFLAMMATION**

5

**ABSTRACT OF THE DISCLOSURE**

A pharmaceutical composition effective for preventing and alleviating  
10 bronchoconstriction, allergy(ies) and/or inflammation comprises a surfactant and a  
nucleic acid comprising an oligonucleotide anti-sense to an adenosine A<sub>1</sub>, A<sub>2a</sub>, A<sub>2b</sub> or A<sub>3</sub>  
receptor gene, mRNA, flanking regions or regions bridging the intro/exon borders,  
analogues which bind thymidine but have low adenosine content or exhibit lower or no  
adenosine receptor agonist activity, combinations thereof, physiologically acceptable  
15 salts thereof or mixtures thereof. The composition is formulated for administration by a  
multiplicity of routes for the prevention or alleviation of diseases and conditions  
associated with breathing difficulties, impeded and obstructed airways,  
bronchoconstriction, allergy and/or inflammation. Among the applications of this  
technology are the prevention and treatment of diseases and conditions such as asthma,  
20 kidney damage or failure, ARDS, pulmonary vasoconstriction, inflammation, allergies,  
impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary  
hypertension, pulmonary vasoconstriction, emphysema, chronic obstructive pulmonary  
disease (COPD), and cancers such as leukemias, lymphomas, carcinomas, and the like.